

What is claimed is:

1. A method for producing an  $\alpha$ -alumina powder comprising a step of calcining an aluminum salt in the presence of a seed crystal at 600-890°C.

2. A method for producing an  $\alpha$ -alumina powder comprising steps of:  
mixing an aluminum salt with a seed crystal, and  
calcining the resulting mixture at 600-890°C.

3. The method according to Claim 1 or 2, wherein the aluminum salt is at least one selected from the group consisting of inorganic aluminum salts, hydrates thereof, organic aluminum salts and hydrates thereof.

4. The method according to Claim 3, wherein the inorganic aluminum salt is at least one selected from the group consisting of aluminum nitrate, aluminum sulfate, ammonium aluminum sulfate and ammonium aluminum carbonate hydroxide.

5. The method according to Claim 3, wherein the organic aluminum salt is at least one selected from the group consisting of aluminum oxalate, aluminum acetate, aluminum stearate, aluminum lactate and aluminum laurate.

6. The method according to Claim 4, wherein the inorganic aluminum salt is aluminum nitrate.

7. The method according to Claim 1 or 2, wherein the seed crystal is at least one selected from the group consisting of

$\alpha$ -alumina, diaspore, iron oxide, chromium oxide and titanium oxide.

8. The method according to Claim 1 or 2, wherein the seed crystal has a BET specific surface area of 12 m<sup>2</sup>/g or more.

9. The method according to Claim 8, wherein the seed crystal has a BET specific surface area of 15-150 m<sup>2</sup>/g.